

Product Texts

LNP THERMOCOMP DX09402 compound is based on Polycarbonate (PC) resin containing glass fiber. Added features of this grade include: Low Temperature Ductility, Easy Processing, UV Stabilized, Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E121562-101357512](https://www.ulprospector.com/121562-101357512)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.45	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2990	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	5.1	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	21.3	%	ISO 527
Flexural modulus	2640	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Izod impact strength, +23°C, 4mm	201	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	29	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2970	MPa	ASTM D 638
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Yield	5.3	%	ASTM D 638
Elongation at Break	36.8	%	ASTM D 638
Flexural Modulus	2810	MPa	ASTM D 790
Izod Impact notched, 1/8 in	431	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2260	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	136	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	54	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	77.9	E-6/K	ASTM D 696
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	129	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.18	%	Sim. to ISO 62
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1230	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-

Back pressure

0.2 - 0.3

MPa

-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific